



RCE/2800

PTO/SB/30 (09-03)

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**Request
for
Continued Examination (RCE)
Transmittal**Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	09/654,845
Filing Date	September 1, 2000
First Named Inventor	Jiffa Hao
Art Unit	2811
Examiner Name	Ori Nadav
Attorney Docket Number	90065.990272

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

- a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
- i. ☐ Consider the arguments in the Appeal Brief or Rely Brief previously filed on _____
- ii. ☐ Other _____
- b. ☒ Enclosed
- i. ☒ Amendment/Reply
- iii. ☐ Information Disclosure Statement (IDS)
- ii. ☐ Affidavit(s)/ Declaration(s)
- iv. ☐ Other _____

2. Miscellaneous

- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- b. ☐ Other _____

3. Fees

- The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. _____
- a. ☐ RCE fee required under 37 CFR 1.17(e)
- ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17)
- iii. ☐ Other _____
- b. ☐ Check in the amount of \$ _____ enclosed
- c. ☒ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED**

Name (Print/Type)	Thomas R. FitzGerald	Registration No. (Attorney/Agent)	26.730
Signature	<i>Thomas R. FitzGerald</i>	Date	12/12/03

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Name (Print/Type)	Kathleen A. Manczak	Date	12/12/03
Signature	<i>Kathleen A. Manczak</i>		

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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01 FC:1801

770.00 DP

02 FC:1252

420.00 DP



Docket:
90065.99R272/17732.6323

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Jifa Hao, et al.)	
)	
Serial No.:	09/654,845)	Examiner:
)	Ori Nadav
)	
Filed:	September 15, 2000)	Art Unit:
)	2811
Title:	POWER SEMICONDUCTOR)	
	DEVICE WITH HIGH)	
	AVALANCE CAPABILITY AND)	
	PROCESS FOR FORMING SAME)	
)	

AMENDMENT

Mail Stop RCE
Commissioner for Patents
PO Box 1450
Alexandria, VA22313-1450

Dear Sir:

IN THE CLAIMS

1.(amended) A power semiconductor device having high avalanche capability, said device comprising:

a semiconductor substrate with two sides and an N+ doped substrate layer extending from one surface of the device into the substrate and, in sequence, N-doped, P-doped, and P+ doped semiconductor layers, an N- doped layer over the N+ doped layer, a P- doped well formed in the N- doped layer and extending from the other surface of the device into N- doped layer, a P+ doped region formed in the P- doped well and also extending from the other surface of the device into the P-doped well, the P- doped well defining an upwardly curving junction between P- doped well and the N- doped layer, said upwardly curving junction extending from the lower end of the P- doped well to the surface of the device and an

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